

CLAIMS

What is claimed is:

- 1 1. A liquid masking composition comprising:
 - 2 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
 - 3 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
 - 4 ratio of between about 0.5 to 1 to about 5 to 1;
 - 5 from 0 to about 8 percent by weight of at least one surfactant;
 - 6 from 0 to less than 16 percent by weight of a saccharide; and
 - 7 sufficient water to total 100 percent by weight.
- 1 2. A liquid masking composition, as set forth in claim 1, wherein said
 - 2 plasticizer is selected from the group consisting of polyhydroxyalcohols.
- 1 3. A liquid masking composition, as set forth in claim 2, wherein said
 - 2 plasticizer is glycerine.
- 1 4. A liquid masking composition, as set forth in claim 1, wherein said
 - 2 polyvinylpyrrolidone has a molecular weight distribution between about
 - 3 200,000 and about 500,000.
- 1 5. A liquid masking composition, as set forth in claim 4, wherein said liquid
 - 2 masking composition comprises from about 3 to about 10 percent by weight
 - 3 polyvinylpyrrolidone.
- 4 6. A liquid masking composition, as set forth in claim 1, wherein said
 - 5 surfactant is selected from the group consisting of nonionic, amphoteric and
 - 6 anionic surfactants having a hydrophilic-lipophilic value of about 9 to 14.

- 1 7. A liquid masking composition, as set forth in claim 6, wherein said
2 surfactant is selected from the group consisting of amphoteric surfactants,
3 silicone surfactants, and mixtures thereof.
- 1 8. A liquid masking composition, as set forth in claim 1, further comprising at
2 least one thickening agent selected from the group consisting of
3 polyacrylates, magnesium silicates, polyvinyl alcohol, fumed silicas, guar
4 gum, and hydroxymethylcellulose.
- 1 9. A liquid masking composition, as set forth in claim 8, wherein said at least
2 one thickening agent is present in an amount up to about 8 percent by
3 weight with the proviso that polyvinyl alcohol may be present in an amount
4 up to 2.4 percent by weight.
- 1 10. A liquid masking composition, as set forth in claim 9, wherein said at least
2 one thickening agent is a polyacrylate.
- 1 11. A liquid masking composition, as set forth in claim 1, wherein said
2 plasticizer is glycerine, said surfactant is at least one compound selected
3 from the group consisting of silicone surfactants, amphoteric surfactants,
4 and mixtures thereof, and additionally comprising a polyacrylate thickener
5 in an amount up to about 2 percent by weight.
- 1 12. A method for protecting selected surfaces from paint in painting operations
2 comprising:
3 applying a liquid masking composition to selected surfaces of an
4 object where paint subsequently applied is not desired;
5 allowing said liquid masking composition to dry, forming a film;

6 painting said object, whereby surfaces carrying said film are
7 protected from the application of paint; and

8 removing said film, wherein said liquid masking composition
9 comprises:

10 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
11 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
12 ratio of between about 0.5 to 1 to about 5 to 1;

13 from 0 to about 8 percent by weight of at least one surfactant;

14 from 0 to less than 16 percent by weight of a saccharide; and

15 sufficient water to total 100 percent by weight.

1 13. A method for protecting selected surfaces from paint, as set forth in claim
2 12, wherein said plasticizer is selected from the group consisting of
3 polyhydroxyalcohols.

1 14. A method for protecting selected surfaces from paint, as set forth in claim
2 13, wherein said plasticizer is glycerine.

1 15. A method for protecting selected surfaces from paint, as set forth in claim
2 12, wherein said surfactant is selected from the group consisting of
3 nonionic, amphoteric and anionic surfactant having a hydrophilic-lipophilic
4 value of about 9 to 14.

1 16. A method for protecting surfaces from paint, as set forth in claim 15,
2 wherein said surfactant is selected from the group consisting of amphoteric
3 surfactants, silicone surfactants, and mixtures thereof.

- 1 17. A method of protecting selected surfaces from paint, as set forth in claim
2 12, wherein the liquid masking composition further comprises at least one
3 thickening agent selected from the group consisting of polyacrylates,
4 magnesium silicates, polyvinyl alcohol, fumed silicas, guar gum, and
5 hydroxymethylcellulose.
- 1 18. A method for protecting selected surfaces from paint, as set forth in claim
2 17, wherein said at least one thickening agent is present in an amount up
3 to about 8 percent by weight, with the proviso that polyvinyl alcohol may
4 be present in an amount up to 2.4 percent by weight.
- 1 19. A method for protecting selected surfaces from paint, as set forth in claim
2 18, wherein said at least one thickening agent is a polyacrylate.
- 1 20. A method for protecting selected surfaces from paint, as set forth in claim
2 12, wherein said liquid masking composition further comprises:
3 from about 3 to about 10 percent by weight of said
4 polyvinylpyrrolidone;
5 from about 1 to about 10 percent by weight of glycerine;
6 from 0 to about 2 percent by weight of a polyacrylate thickening
7 agent;
8 from about 0.5 to about 2 percent by weight of an amphoteric
9 surfactant;
10 from about 0.1 to about 1 percent by weight of a silicone surfactant;
11 and
12 sufficient water to total 100 percent by weight.

1 21. A method for protecting selected surfaces of goods from the deposition of
 2 dirt, oil, grease, air pollutants, acid rain, vehicle exhaust, soot, rubber or
 3 asphalt pieces, road tar, or other contaminants, comprising:
 4 applying a liquid masking composition to selected surfaces of a good
 5 to be protected;
 6 allowing said liquid masking composition to dry, forming a film;
 7 exposing said object to potential contamination, whereby surfaces
 8 carrying said film are protected from the deposition of dirt, oil, grease, air
 9 pollutants, acid rain, vehicle exhaust, soot, rubber or asphalt pieces, road
 10 tar, or other contaminants; and
 11 removing said film,
 12 wherein said liquid masking composition comprises:
 13 from about 2 to about 50 percent by weight of polyvinylpyrrolidone;
 14 a water soluble plasticizer at a polyvinylpyrrolidone to plasticizer
 15 ratio of between about 0.5 to 1 to about 5 to 1;
 16 from 0 to about 8 percent by weight of at least one surfactant;
 17 from 0 to less than 16 percent by weight of a saccharide; and
 18 sufficient water to total 100 percent by weight.

1 22. The method for protecting surfaces of goods of claim 21, wherein said
 2 plasticizer is selected from the group consisting of polyhydroxyalcohols.

1 23. The method for protecting surfaces of goods of claim 22, wherein said
 2 plasticizer is glycerine.

1 24. The method of protecting surfaces of goods of claim 21, wherein said liquid
 2 masking compound further comprises at least one thickening agent selected
 3 from the group consisting of polyacrylates, magnesium silicates, polyvinyl
 4 alcohol, fumed silicas, guar gum, and hydroxymethylcellulose.

1 25. The method for protecting surfaces of goods of claim 21, wherein said
 2 surfactant is selected from the group consisting of nonionic, amphoteric and
 3 anionic surfactant having a hydrophilic-lipophilic value of about 9 to 14.

1 26. The method for protecting surfaces of goods of claim 25, wherein said
 2 surfactant is selected from the group consisting of amphoteric surfactants,
 3 silicone surfactants and mixtures thereof.

1 27. The method for protecting surfaces of goods of claim 21, wherein said
 2 liquid masking composition further comprises:
 3 from about 3 to about 10 percent by weight of said
 4 polyvinylpyrrolidone;
 5 from about 1 to about 10 percent by weight of glycerine;
 6 from 0 to about 2 percent by weight of a polyacrylate thickening
 7 agent;
 8 from about 0.5 to about 2 percent by weight of an amphoteric
 9 surfactant;
 10 from about 0.1 to about 1 percent by weight of a silicone surfactant;
 11 and
 12 sufficient water to total 100 percent by weight.

1 28. The method for protecting surfaces of goods of claim 21, wherein the goods
 2 to be protected are motor vehicles.